

GEOCAP - Case-Control Study Based on Childhood Cancer Geolocalisation

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General

Identification

Detailed name Case-Control Study Based on Childhood Cancer Geolocalisation

Sign or acronym GEOCAP

CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation N°CNIL: 998198, 900183

General Aspects

Medical area Cancer research
Hematology
Immunology
Pediatrics

Study in connection with Covid-19 No

Health determinants Geography
Pollution
Social and psychosocial factors
Others (specify)

Others (details) Cancer, brain tumour, leukaemia

Keywords Environmental exposure, risk, incidence, child

Scientific investigator(s) (Contact)

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Collaborations

Participation in projects, networks and consortia	Yes
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Funding

Funding status	Mixed
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Details	- EDF- Fondation Pfizer- Institut national de Veille Sanitaire- Agence Nationale de la Recherche- Agence nationale de sécurité sanitaire de l'alimentation- Fondation ARC pour la recherche sur le cancer- Institut National Du Cancer
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Governance of the database

Sponsor(s) or organisation(s) responsible	Institut national de la santé et de la recherche médicale
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Organisation status	Public
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Presence of scientific or steering committees	No
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Additional contact

Main features

Type of database

Type of database	Study databases
Study databases (details)	Case control study
Database recruitment is carried out by an intermediary	A population file An administrative base or a register
Database recruitment is made on the basis of:	Another treatment or procedure
Database recruitment is carried out as part of an interventional study	No
Additional information regarding sample selection.	Includes all cancer cases for children under 15 years old who have been diagnosed with cancer or benign brain tumour since 2002, living in mainland France at the time of diagnosis. Includes all child case-controls under 15 years old from the general population, represented by a sample of 5,000 child addresses per year, created by INSEE on tax record database.
Database objective	
Main objective	To study the influence of several environmental exposures on the risk of childhood cancer - proximity to power lines and exposure to electric and magnetic fields at extremely low frequency - proximity to traffic lanes and environmental exposure to benzene and other pollutants - exposure to living spaces with natural ionising radiation, especially radon and gamma radiation - proximity to industrial sites
Inclusion criteria	- Men or women - under 15 years old
Population type	
Age	Newborns (birth to 28 days) Infant (28 days to 2 years) Early childhood (2 to 5 years) Childhood (6 to 13 years) Adolescence (13 to 18 years)
Population covered	General population
Pathology	
Gender	Male Woman

Geography area National

Detail of the geography area France

Data collection

Dates

Date of first collection (YYYY or MM/YYYY) 2002

Size of the database

Size of the database (number of individuals) Greater than 20 000 individuals

Details of the number of individuals 6700:- 1700 cancers (470 leucémies/leukemias)/cases- 5000 témoins/controls

Data

Database activity Current data collection

Type of data collected Clinical data
Biological data
Administrative data

Clinical data (detail) Direct physical measures

Biological data (detail) DNA

Presence of a biobank No

Health parameters studied Health event/morbidity
Others

Other (detail) Radiation doses due to gaseous discharges from nuclear power plants: IRSN/DRPH/SER Data on natural ionising radiation sources: IRSN/PRP-DGE/SEDRAN/BRN Localisation of power lines: RTE

Procedures

Data collection method Data related to child exposure are estimated from their home address geocoded accurately.

Participant monitoring No

Followed pathology

Links to administrative sources No

Promotion and access

Promotion

Link to the document <http://onlinelibrary.wiley.com/doi/10.1002/ijc.27425/pdf>

Link to the document <http://www.nature.com/bjc/journal/v108/n9/full/bjc2013128a.html?foxtrotcallback=true>

Link to the document <https://ehp.niehs.nih.gov/EHP296/>

Link to the document <http://onlinelibrary.wiley.com/doi/10.1111/ppe.12313/full>

Link to the document <https://academic.oup.com/aje/article/182/8/685/207208>

Link to the document <https://www.sciencedirect.com/science/article/pii/S0265931X17309980?via%3Dihub>

Access

Terms of data access (charter for data provision, format of data, availability delay) To be defined

Access to aggregated data Access on specific project only

Access to individual data Access on specific project only